

ABSTRACT OF THE DISCLOSURE

Screens for use with image-forming illumination (53,54) are provided, as well
5 as methods for producing such screens. The screens include an array of lenses (51), a
substrate, and a layer of light-absorbing material (55) in which apertures are formed
using aperture-forming illumination (52) which passes through the lenses (51). The
optical properties of the lenses (51) and the thickness of the substrate are selected so as
to maximize the light-blocking area of the layer of light-absorbing material (55) while
10 allowing long-wavelength image-forming illumination (54) to pass through the
apertures substantially unimpeded. The array of lenses can be an array of randomized,
anamorphic microlenses.

RECORDED IN FINGERPRINT